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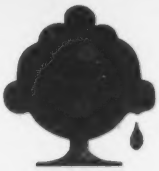

THE LATEST SCOOP

1984 EDITION

◆ FACTS AND FIGURES ON ICE CREAM AND RELATED PRODUCTS ◆

PUBLISHED BY THE INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS

WORLDWIDE

BEST AVAILABLE COPY

The International Association of Ice Cream Manufacturers launched its July ICE CREAM FOR AMERICA promotion in 1983 to increase consumer top-of-mind awareness for ice cream, largely by reminding consumers of their predisposition to enjoy ice cream. The ICE CREAM FOR AMERICA campaign serves as an umbrella program for individual company activities, all integrated by the servicemarked ICE CREAM FOR AMERICA logo.

Ice cream companies are participating in the promotion by developing point-of-purchase materials and in-store promotions for their brands, as well as sponsoring local charitable events and community activities. Additionally, the promotion is geared to generate extensive national and local publicity on ice cream.

This year, July has been designated as National Ice Cream Month, and July 15 as National Ice Cream Day by the United States Congress and presidential proclamation.

The second Annual Capitol Hill Kickoff of ICE CREAM FOR AMERICA was held on June 21. At the celebration, 8,000 attended, including Senators, Congressmen, and Administration officials and their staffs. They enjoyed 2,500 gallons of ice cream, 300 pounds of candy and nuts, 5,600 novelties, 160 gallons of toppings and 200 gallons of root beer.

Published by

INTERNATIONAL ASSOCIATION OF ICE CREAM MANUFACTURERS
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THE LATEST SCOOP
1984 EDITION

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FOREWORD

Ice cream, with its universal appeal to all age groups, continues to grow in popularity. Record high volumes of ice cream and related products were consumed in 1983, and this pattern is continuing in 1984.

"The Latest Scoop" reports the trends taking place in the industry and contains information on production and consumption in the United States, Canada and 53 other countries.

We believe this annual publication will be of value to our members and others interested in the ice cream industry.

- Other Publications Available from IAICM -

Marketing Information on Ice Cream
and Related Products

Let's Sell - Let's Serve Ice Cream

History of Ice Cream

History of the Ice Cream Cone

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How It All Started

Ice cream probably evolved from chilled wines and other iced beverages. In the fourth century before Christ, Alexander the Great was reputed to be fond of iced beverages.

And, from ancient records, it is learned that in 62 A.D., the Roman Emperor, Nero, sent fleets of slaves to the mountains of the Apennines to fetch snow and ice which were then flavored with nectar, fruit pulp and honey.

Marco Polo, the 13th century bard and adventurer, brought with him to Europe from the Far East, recipes for water ices...said to be used in Asia for thousands of years. These water ices became popular in Venice and throughout Italy.

When Catherine de Medici married Henry II and became Queen of France in 1533, she brought with her recipes for Italian sherbet. It is said that her son, Henry III, was addicted to these delicacies and consumed them daily.

In 1660 the Cafe Procope was founded in Paris by an Italian named Coltelli, and water ices and possibly cream ices were manufactured and dispensed.

This delicacy found its way to America and in 1700 Governor Bladen of Maryland was serving ice cream to his guests.

Dolley Madison created a sensation when she served ice cream as a dessert in the White House at the second inaugural ball in 1812.

The first hand-cranked freezer was invented by Nancy Johnson in 1846. She failed to patent it, however, and a similar type was patented by a Mr. Young in 1848.

The first commercial ice cream plant was established in Baltimore in 1851 by Jacob Fussell.

A year before the turn of the century, August Gaulin of Paris invented the homogenizer which is used to help develop the smooth texture of ice cream.

With the coming of mechanical refrigeration, the first batch freezer was invented by H. H. Miller of Canton, Ohio. About 1926, the first continuous freezer was commercially perfected by Clarence Vogt of Louisville, Kentucky.

The ice cream cone was first made and sold at the St. Louis World's Fair in 1904. It has remained a favorite to this date, with billions of cones consumed each year. Other products, such as ice cream on sticks, ice cream bars and other forms of ice cream; ice milk and sherbet, known in the industry as "novelties" had their beginning in the 1920s.

How Ice Cream Is Made

The basic mix for the manufacture of ice cream is largely cream and other milk ingredients, plus sweeteners.

The ingredients of the mix are carefully blended in proper proportions in a mixing tank. The mix may contain small amounts of functional ingredients, such as stabilizer, which prevents the formation of ice crystals in the ice cream after it is frozen.

The mix goes to a pasteurizer where it is heated and held at a predetermined temperature for a specified period of time. The most common type of pasteurization is the high-temperature-short-time method in which the mix is heated to 175 degrees F. and held for 25 seconds.

The hot mix then goes to the homogenizer where, under pressure of from 2,000 to 2,500 pounds per square inch, the milkfat globules are broken into still smaller particles to help make the ice cream smooth.

After homogenization, the hot mix is quickly cooled to a temperature of about 40 degrees F.

Next, freezing of the mix is accomplished by one of two methods: a "continuous freezer" which uses a steady flow of mix; or a "batch freezer" which makes a single quantity of ice cream at a time.

While the ice cream is being frozen, blades in the freezer, or "dashers" as they are commonly called, whip and aerate the products. Without this aeration, the finished product would be an inedible, solidly frozen mass of cream, milk, sugar and flavoring. In all states, this aeration, called "overrun," is controlled by requiring the finished ice cream shall weigh not less than 4.5 pounds per gallon and contain at least 1.6 pounds of total food solids.

With the use of the continuous freezer, ingredients such as fruits and nuts are added after the freezing by a mechanical flavor feeder. Liquid flavors are added to the mix prior to freezing.

The filling operation includes many activities such as filling large containers, half gallon, quart and pint packages, paper cups or molds for ice cream on a stick.

After the freezer and filling, ice cream goes to the "hardening room" where sub-zero temperatures further harden the ice cream. From the hardening room, it is loaded into refrigerated trucks for delivery to distributors or retailers.

REVIEW

United States

- *For the first five months of 1984*....ice cream continued its upward climb with a reported increase in volume of 3% over the corresponding period last year. Ice milk gained 6%, while sherbet experienced a slight decline of 1%

- *For the year 1983*....a record high volume of 1.29 billion gallons of ice cream and related products was produced....an increase of 3.5% over the previous year. All products, with the exception of mellorine, showed significant increases with ice cream up 3%, ice milk 5%, sherbet 4.5%, and water ices 12%.

- The wholesale value of these four products was estimated to be $3.7 billion, an increase of 5%.

- The industry employs 18,000 people and has an annual payroll of $313.5 million.

- The month of June displaced July as the highest producing month of ice cream and related products, accounting for 10.9% of total production, while January ranked the lowest with 6%.

- California continues as the leading manufacturer of ice cream and related products with a total output of 141.4 million gallons, followed by Pennsylvania with 99.25 million and Texas with 83.8 million. These three states represented 25% of the total volume.

- The highest per capita consumption of ice cream is in the New England area, with 23.10 quarts, versus 15.02 quarts for the country.

- The North West Central region leads the nation in the consumption of all ice cream and related products with a per capita of 31.82 quarts, compared to 22.10 quarts nationally.

- Ninety-six percent of ice cream is hard frozen and 4% soft serve - while 78% of ice milk is soft serve and 22% hard frozen.

- Ice cream accounts for 68% of the total production, followed by ice milk 23%, sherbet 4%, water ices 3%, with the balance made up of mellorine and other frozen dairy products.

- Raw material costs represented 53.6% of the ice cream processor's dollar, down 1%.

Preliminary

1984 PRODUCTION

(Thousand Gallons)

Month	Ice Cream 1984	Ice Cream % Change from 1983	Ice Milk 1984	Ice Milk % Change from 1983	Sherbet 1984	Sherbet % Change from 1983
January	54,759	- 0.3	17,134	+ 3.7	2,771	- 1.2
February (29 days)	65,419	+ 8.2	21,108	+15.0	3,008	+ 5.0
March	78,175	- 2.0	24,955	+ 0.7	3,804	- 4.2
April	72,808	+ 4.2	25,514	+ 4.9	4,014	+ 3.1
May	81,802	+ 4.1	31,405	+ 7.5	4,364	- 6.0
5-Month Total	352,963	+ 2.7	120,116	+ 6.1	17,961	- 1.2

PRODUCTION AND PER CAPITA - 1983

	1983	% Change from 1982
Total - Ice Cream & Related Products 1/	1,292,739,000 gals.	+ 3.5
Per Capita Production	22.10 qts.	+ 2.6
Ice Cream (Hard and Soft)	878,786,000 gals	+ 3.1
Per Capita Production	15.02 qts.	+ 2.2
Ice Milk (Hard and Soft)	295,097,000 gals.	+ 5.2
Per Capita Production	5.05 qts.	+ 4.3
Sherbet	47,629,000 gals.	+ 4.5
Per Capita Production	0.81 qts.	+ 3.5
Water Ices (Hard) 2/	39,438,000 gals.	+12.2
Per Capita Production	0.68 qts.	+11.5
Mellorine (Hard and Soft)	10,194,000 gals.	+ 0.6
Per Capita Production	0.17 qts.	0.0

1/ Includes a small amount of other frozen dairy products.

2/ Excludes production of water ices by counter freezers.

INTERNATIONAL REVIEW

United States is the largest consumer of ice cream and related products with a per capita production of 44.21 pints. Per capita consumption of ice cream was 30.05 pints.

Australia is the second largest user of ice cream and related products with a per capita production of 36.58 pints and reported a per capita production of ice cream of 27.97 pints.

New Zealand ranks in third position with a per capita production of 35.87 for all ice cream products and 32.37 pints of ice cream.

Canada has the fourth highest per capita of ice cream and related products of 32.50 pints and a per capita of ice cream of 27.16 pints.

Sweden is in fifth place with a per capita of 28.26 pints for all ice cream products and 25.17 pints of ice cream.

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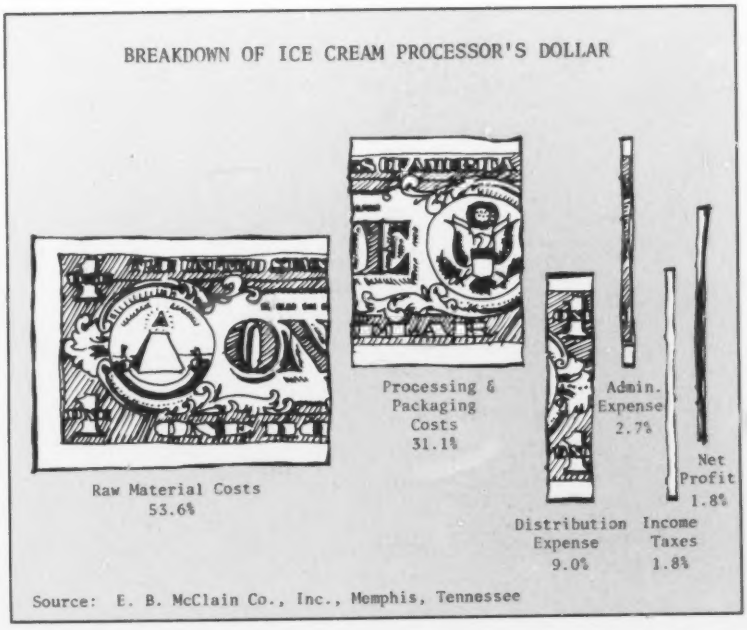
THE "REAL" PRICE OF ICE CREAM
1973-1983

Year	Average Wages Production Workers $ per Hour	Average Retail Price of Ice Cream ¢ per ½ Gallon	Labor Required to Purchase Half Gallon of Ice Cream Minutes
1973	4.09	91.0	13.3
1974	4.42	107.6	14.6
1975	4.83	122.3	15.2
1976	5.22	127.1	14.6
1977	5.68	135.2	14.3
1978	6.17	146.2	14.2
1979	6.69	163.3	14.6
1980	7.27	182.3	15.0
1981	7.99	201.6	15.1
1982	8.50	210.2	14.8
1983	8.84	215.8	14.7
% Change 1973-1983	+116%	+137%	+11%


BREAKDOWN OF ICE CREAM PROCESSOR'S DOLLAR
Raw Material Costs 53.6%
Processing & Packaging Costs 31.1%
Distribution Expense 9.0%
Admin. Expense 2.7%
Income Taxes 1.8%
Net Profit 1.8%
Source: E. B. McClain Co., Inc., Memphis, Tennessee

PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
BY STATES AND REGIONS - 1983

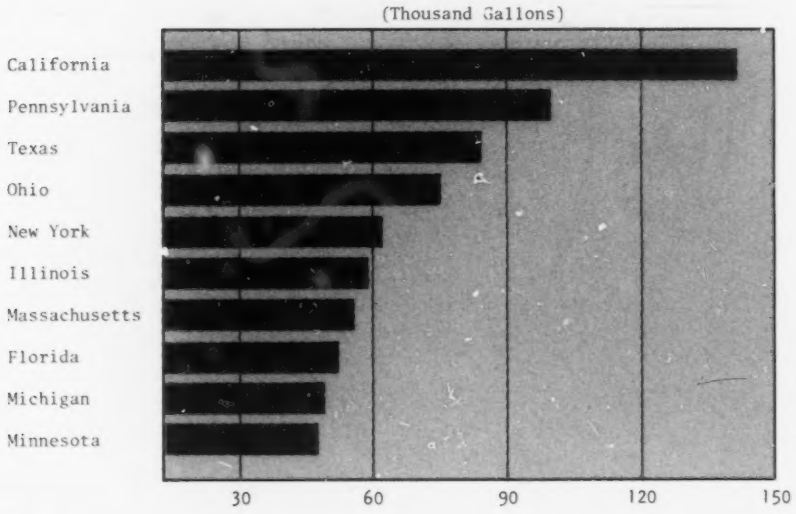
STATE & REGION	ICE CREAM	ICE 1/ MILK	SHERBET	WATER ICES	MELLORINE TYPE PRODUCTS	OTHER FROZEN DAIRY PRODUCTS	TOTAL FROZEN PRODUCTS
			(Thousand Gallons)				
NEW ENGLAND							
Maine	2/	2/	2/				2/
New Hampshire	2/	2/	2/				2/
Vermont	462	2/	2/				462
Massachusetts	44,510	9,138	2,297	2/		2/	55,945
Rhode Island	2/	2/	2/	2/		2/	2/
Connecticut	2/	2/	2/	2/		2/	2/
MID ATLANTIC							
New York	49,847	7,659	2,206	1,906	2/	2/	61,618
New Jersey	24,474	5,678	283	316			30,751
Pennsylvania	77,053	14,328	3,702	2,205		1,965	99,253
E. N. CENTRAL							
Ohio	46,623	22,420	3,048	2,811		1,346	76,248
Indiana	25,754	6,820	2,054	2,343		782	37,733
Illinois	36,684	18,425	1,979	829	639	2/	58,556
Michigan	34,275	10,821	1,474	2/	2/	504	47,074
Wisconsin	20,941	5,894	911	2,460		10	30,216
W. N. CENTRAL							
Minnesota	37,422	6,245	1,873		2/	2/	45,540
Iowa	16,694	6,822	1,485	2/	861	2/	25,862
Missouri	19,436	9,276	992	2/	170	2/	29,874
North Dakota	2,269	1,213	172	2/			3,654
South Dakota	49	606					655
Nebraska	7,508	4,139	2/	2/		2/	11,647
Kansas	8,217	5,391	532	2/		2/	14,140
SOUTH ATLANTIC							
Maryland & D.C.	15,346	5,816	1,309	1,295		2/	21,766
Virginia	12,685	5,970	359	216	2/	2/	19,230
West Virginia	2,769	1,883	154	2/		2/	4,806
North Carolina	31,037	9,383	1,282	1,865		2/	43,567
South Carolina	10,170	4,238	1,091	2/		2/	15,499
Georgia	8,215	10,409	486	2/	2/	2/	19,110
Florida	34,602	13,979	1,758	1,145	113	2/	50,997
SOUTH CENTRAL							
Kentucky	2/	2/	2/	2/	2/	2/	2/
Tennessee	18,633	5,413	916	553	2/	245	25,760
Alabama	13,266	5,327	807	1,001	147	2/	20,548
Mississippi	4,000	2,651	229	266			7,146
Arkansas	5,824	3,079	260		310		9,473
Louisiana	8,267	4,824	433	2/	2/	2/	13,524
Oklahoma	9,945	4,294	569	197	167	186	15,358
Texas	57,256	14,041	3,739	3,310	5,473	2/	83,839
MOUNTAIN							
Montana	1,931	1,070	91	2/	2/	2/	3,092
Idaho	4,267	1,384	217	2/			5,868
Wyoming	2/	2/	2/				2/
Colorado	10,120	5,566	497	522		76	16,781
New Mexico	2/	2/	2/	2/	2/		2/
Arizona	6,441	2/	530	2/	2/		6,971
Utah	8,872	2,354	509	2/			11,735
Nevada	2/	2/	2/		2/		2/
PACIFIC							
Washington	16,224	8,515	1,604	2/	2/	2/	26,343
Oregon	8,833	4,803	410	2/	2/	2/	14,046
California	101,070	27,793	4,755	3,611	807	3,408	141,444
Other States 3/	39,415	17,430	2,596	12,587	1,507	13,073	86,608
UNITED STATES	878,786	295,097	47,629	39,438	10,194	21,595	1,292,739

1/ Includes freezer-made milkshake
2/ State data not shown when less than 3 plants reported or individual operations might be disclosed--included in "Other States" with Alaska and Hawaii.
3/ Includes varying states for each product.

Prepared by International Assn. of Ice Cream Mfrs. from data published by U. S. Department of Agriculture.

PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
TEN LEADING STATES, 1983

(Thousand Gallons)



PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
TEN LEADING STATES, 1983

State	Ice Cream	Ice Milk	Sherbet	Water Ices	Mellorine Tyne Products	Total 1/
			(Thousand Gallons)			
California	101,070	27,793	4,755	3,611	807 2/	141,444
Pennsylvania	77,053	14,328	3,702	2,205		99,253
Texas	57,256	14,041	3,759	3,310	5,473	83,839
Ohio	46,623	22,420	3,048	2,811		76,248
New York	49,847	7,659	2,206	1,906		61,618
Illinois	36,684	18,425	1,979	829	639	58,556
Massachusetts	44,510	9,138	2,297			55,945
Florida	34,002	13,979	1,758	1,145	113	50,997
Michigan	34,275	10,821	1,474			47,074
Minnesota	37,422	6,245	1,873			45,540
TOTAL--10 STATES	518,742	144,849	26,851	15,817	7,032	720,514
PERCENT OF U. S. TOTAL	59.0%	49.1%	56.4%	40.1%	69.0%	55.7%

1/ Includes small amounts of other frozen products in addition to those shown separately.

2/ Designated as "Imitation Ice Cream" or "Imitation Ice Milk" in California

Prepared by International Association of Ice Cream Manufacturers from data published by U. S. Department of Agriculture.

DEFINITIONS

- Selected Frozen Desserts -

ICE CREAM is a frozen food made from a mixture of dairy products, such as milk, cream and nonfat milk, combined with sugars, flavorings, fruits, nuts, etc. Ice cream which contains at least 1.4% egg yolks is called french ice cream or frozen custard. Ice cream and french ice cream contain a minimum of 10% milkfat and weigh not less than 4.5 pounds per gallon.

ICE MILK is a frozen dessert which is similar to ice cream except that it contains between 2% to 7% milkfat.

SHERBET, both fruit sherbet and those flavored with flavors other than fruit, contains between 1% to 2% milkfat and weighs not less than 6 pounds per gallon.

WATER ICES, both fruit ices and those flavored with flavors other than fruit, contain no dairy ingredients and weigh not less than 6 pounds per gallon.

MELLORINE is a frozen dessert similar to ice milk in which the milkfat is replaced, in whole or in part, with vegetable fat and the minimum fat content is 6%.

NUTRITION HIGHLIGHTS 1/

	Calories	Protein g.	Carbohydrate g.	Fat g.	Vitamin A I.U.	Calcium mg.	Phosphorus mg.	Riboflavin mg.
Vanilla Ice Cream (10% fat)	130	2.3	15.3	6.9	261	84	64	.158
% U.S. RDA 2/		*5.1%*			*8.2%*	*8.4%*	*6.4%*	*9.3%*
Vanilla Ice Cream (16% fat)	151	1.8	13.8	10.2	388	65	50	.122
% U.S. RDA 2/		*3.9%*			*7.8%*	*6.5%*	*5.0%*	*7.2%*
Vanilla Ice Milk (4% fat)	90	2.5	14.2	2.8	104	85	63	.169
% U.S. RDA 2/		*5.6%*			*2.1%*	*8.5%*	*6.3%*	*9.9%*
Orange Sherbet (2% fat)	90	.72	19.5	1.3	61	34	24	.029
% U.S. RDA 2/		*1.6%*			*1.2%*	*3.4%*	*2.4%*	*1.7%*

1/ Values presented per 1/2 cup (approximately 4 fluid ounces). Source: Calculated from USDA Agricultural Handbook 8-1 (November 1976) data.

2/ United States Recommended Daily Allowance.

EMPLOYEES, WAGES AND VALUE OF SHIPMENTS
FROZEN DESSERTS INDUSTRY, 1947-1982

Year	All Employees 1/		Production Workers 1/		Wages 1/	Value of Product Shipments 2/
	Number	Payroll	Number	Manhours		
	Thousands	Million Dollars	Thousands	Millions	Million Dollars	Million Dollars
1947	46.7	119.3	29.3	52.8	66.1	802.0
1954	36.5	134.2	21.0	42.4	64.2	954.3
1958	34.8	153.9	18.7	37.7	72.4	1,137.7
1963	29.6	162.8	15.6	32.5	76.6	1,210.0
1967	24.6	156.4	13.8	27.2	77.2	1,273.6
1968	23.7	158.2	13.2	26.6	79.8	1,330.0
1969	22.7	159.2	12.6	25.4	80.6	1,334.8
1970	24.1	166.8	13.9	26.1	85.9	1,343.2
1971	22.6	173.5	12.8	25.1	87.7	1,389.0
1972	21.1	184.7	12.0	23.5	94.7	1,519.4
1973	21.3	195.9	12.1	24.1	100.0	1,639.5
1974	21.3	196.5	11.8	22.9	108.0	1,787.9
1975	20.2	208.5	11.1	22.0	116.4	2,012.9
1976	20.3	223.6	11.3	22.3	125.3	2,063.3
1977	19.1	247.0	11.4	22.7	130.1	2,229.4
1978	18.5	252.5	11.3	21.9	136.6	2,397.2
1979	19.9	277.4	12.3	24.3	151.9	2,733.2
1980	19.6	288.6	12.3	23.7	163.0	3,041.5
1981	20.1	325.6	12.0	23.0	167.1	3,322.1
1982 3/	17.8	313.5	11.1	20.9	177.3	3,237.1

1/ Data for plants with ice cream and other frozen desserts as the leading product group in value of shipments.

2/ Includes value of shipments of ice cream and other frozen desserts by plants classified in other industries, such as fluid milk.

3/ Preliminary

Source: Bureau of the Census, U. S. Department of Commerce.

CAPITAL EXPENDITURES FOR NEW PLANTS AND EQUIPMENT
FROZEN DESSERTS INDUSTRY, 1947-1982

Year	Total	For Plants	Share of Total	For Equipment	Share of Total
	Million Dollars	Million Dollars	Percent	Million Dollars	Percent
1947	36.0	5.4	15.0	30.6	85.0
1954	25.7	4.2	16.3	21.5	83.7
1958	26.1	5.1	19.5	21.0	80.5
1963	31.9	8.1	25.4	23.8	74.6
1967	26.6	5.7	21.4	20.9	78.6
1968	22.1	2.8	12.7	19.3	87.3
1969	30.3	5.6	18.5	24.7	81.5
1970	43.7	15.8	36.2	27.9	63.8
1971	28.0	5.7	20.4	22.3	79.6
1972	35.8	7.5	20.9	29.3	79.1
1973	29.2	9.7	33.2	19.5	66.8
1974	27.8	6.2	22.3	21.6	77.7
1975	37.2	10.1	27.2	27.0	72.6
1976	43.2	11.9	27.5	31.3	72.5
1977	58.1	19.4	33.4	38.7	66.6
1978	56.4	12.6	22.3	43.8	77.7
1979	46.3	12.8	27.6	33.5	72.4
1980	46.8	11.1	23.7	35.7	76.3
1981	41.8	6.1	14.6	35.7	85.4
1982 1/	79.9	NA	NA	NA	NA

1/ Preliminary

Source: Bureau of the Census, U. S. Department of Commerce.

TOTAL AND PER CAPITA PRODUCTION (HARD AND SOFT)
ICE CREAM AND RELATED PRODUCTS
1859-1983

YEAR	ALL PRODUCTS REPORTED		ICE CREAM		ICE MILK 2/		SHERBET		WATER ICES		OTHER FROZEN 3/ DAIRY PRODUCTS		MELLORINE TYPE PRODUCTS	
	Total 1/ 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts
1859	4		4											
1869	24		24											
1879	144	0.01	144	0.01										
1889	851	0.06	851	0.06										
1899	5,021	0.27	5,021	0.27										
1909	29,637	1.31	29,637	1.31										
1919	152,982	5.86	152,982	5.86										
1920	171,248	6.43	171,248	6.43										
1930	255,439	8.30	255,439	8.30										
1940	339,544	10.29	318,088	9.64	10,457	0.32	8,089	0.24			2,910	0.09		
1950	634,768	16.79	554,351	14.66	36,870	0.98	17,018	0.45	18,299	0.48	8,230	0.22		
1955	819,934	19.96	628,525	15.30	90,185	2.20	37,365	0.91	28,158	0.69	3,440	0.08	32,261	0.78
1960	969,004	21.54	699,605	15.55	145,177	3.23	40,734	0.91	33,361	0.74	4,913	0.11	45,214	1.00
1965	1,130,215	23.36	757,000	15.65	230,992	4.77	45,449	0.94	37,119	0.77	6,486	0.13	53,169	1.10
1970	1,193,144	23.42	761,732	14.95	286,663	5.63	48,887	0.96	37,265	0.73	6,719	0.13	51,878	1.02
1975	1,263,213	23.45	836,552	15.53	298,789	5.55	48,542	0.90	38,230	0.71	11,062	0.20	30,038	0.56
1979	1,212,645	21.60	811,079	14.45	296,653	5.29	45,124	0.80	32,081	0.57	12,034	0.21	15,674	0.28
1980	1,225,223	21.58	829,798	14.61	293,384	5.17	45,187	0.80	33,386	0.59	10,278	0.18	13,190	0.23
1981	1,238,712	21.61	832,450	14.52	290,992	5.08	45,732	0.80	34,344	0.60	24,003	0.42	11,191	0.19
1982	1,248,552	21.54	852,072	14.70	280,559	4.84	45,575	0.79	35,158	0.61	25,058	0.43	10,130	0.17
1983	1,292,739	22.10	878,786	15.02	295,097	5.05	47,629	0.81	39,438	0.68	21,595	0.37	10,194	0.17

1/ Data from 1859 to 1919 indicate only the estimated trend of production.

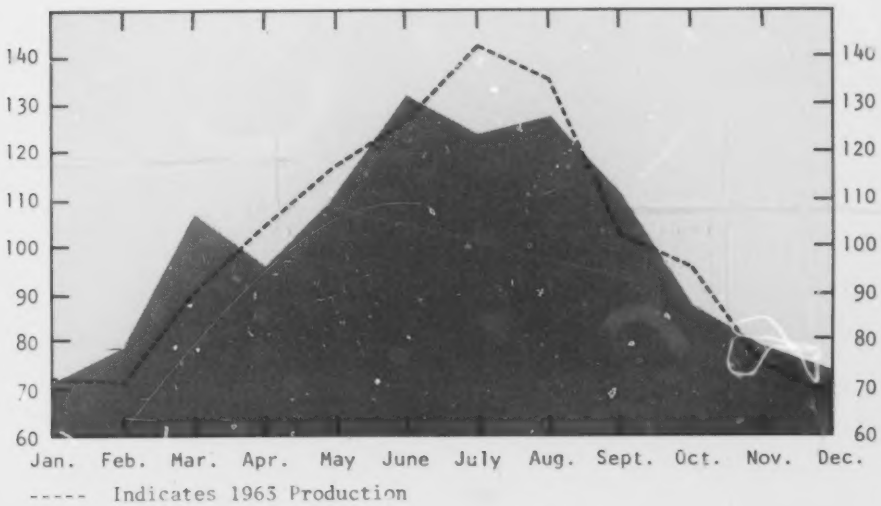
2/ Includes freezer-made milkshake beginning 1954.

3/ For 1940-1953 includes frozen custard and frosted or frozen malted milk.

Prepared by the International Association of Ice Cream Manufacturers from data published by the U. S. Department of Agriculture.

SEASONALITY OF PRODUCTION OF ICE CREAM
AND RELATED PRODUCTS - 1963-1983

(Monthly production as a percent of annual average)



----- Indicates 1963 Production

MONTHLY PRODUCTION OF ICE CREAM AND RELATED PRODUCTS
AS A PERCENT OF ANNUAL AVERAGE, 1963-1983

Month	1963	1983
January	71.2	72.1
February	72.1	79.6
March	90.2	106.2
April	104.8	96.9
May	117.8	111.7
June	126.8	130.6
July	141.7	123.5
August	134.5	127.6
September	102.1	110.6
October	95.7	88.4
November	75.0	78.8
December	68.1	73.9

PRODUCTION OF MIX FOR FROZEN PRODUCTS (HARD AND SOFT)
BY STATES AND REGIONS - 1985

STATE AND REGION	ICE CREAM MIX	ICE MILK 1/ MIX	SHERBET MIX	MELLORINE TYPE MIX	TOTAL MIX FOR FROZEN PRODUCTS
		(Thousand Gallons)			
NEW ENGLAND					
Maine	2/				2/
New Hampshire	2/				2/
Vermont	2/				2/
Massachusetts	22,148	5,862	1,610		29,620
Rhode Island	2/				2/
Connecticut	2/				2/
MID ATLANTIC					
New York	27,356	6,068	1,561		34,985
New Jersey	2/	3,590	172		3,762
Pennsylvania	40,436	7,457	2,504		50,397
E. N. CENTRAL					
Ohio	25,381	13,937	2,099		39,417
Indiana	12,165	4,673	1,512		18,350
Illinois	20,174	12,725	1,297	426	34,622
Michigan	17,823	6,961	1,023		25,807
Wisconsin	10,689	2,522	591	177	13,979
W. N. CENTRAL					
Minnesota	2/				2/
Iowa	8,211	4,031	1,205	1,115	14,562
Missouri	8,591	5,071	635	45	14,342
North Dakota	873	723	108		1,704
South Dakota	2/				2/
Nebraska	3,846	2,658			6,504
Kansas	4,173	4,084	335		8,592
SOUTH ATLANTIC					
Maryland & D. C.	6,570	2,266	970		9,806
Virginia	7,030	8,028	256		15,314
West Virginia	1,144	615	72		1,831
North Carolina	15,744	6,144	812		22,700
South Carolina	5,391	1,922	711		8,024
Georgia	3,962		305		4,267
Florida	17,190	8,647	1,168		27,005
SOUTH CENTRAL					
Kentucky	2/	2,456			2,456
Tennessee	9,507	2,379	588		12,474
Alabama	6,401	3,095	505	116	10,117
Mississippi	2,094	1,725	146		3,965
Arkansas	2,990	2,263	145	155	5,553
Louisiana	4,040	2,672	269		6,981
Oklahoma	5,175	2,383	354	90	8,002
Texas	29,744	8,958	1,820	2,691	43,213
MOUNTAIN					
Montana	1,054	807	59		1,920
Idaho	1,924	784	129		2,837
Wyoming	2/				2/
Colorado	5,192	3,668	330		9,190
New Mexico	2/				2/
Arizona	3,151			109	3,260
Utah	4,587	1,688	322		6,597
Nevada	2/				2/
PACIFIC					
Washington	8,433	5,544	1,072		15,049
Oregon	4,412	3,046	265		7,723
California	51,677	17,435	3,263	536	72,911
Other States 3/	54,472	19,689	3,021	294	77,476
UNITED STATES	451,750	186,576	31,234	5,754	675,314

1/ Includes milkshake mix
2/ State data not shown when less than 3 plants or individual operations might be disclosed -- included in "Other States" with Alaska and Hawaii.
3/ Includes varying states for each product.

Prepared by International Assn. of Ice Cream Mfrs. from data published by U. S. Department of Agriculture.

MONTHLY PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
1981-1983

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
						(Thousand Gallons)							
						ALL FROZEN PRODUCTS 1/							
1981	74,780	84,743	104,358	107,330	110,600	132,370	137,667	123,659	108,343	92,722	80,399	81,741	1,238,712
1982 2/	71,659	83,178	108,870	108,565	116,081	133,716	136,111	124,192	107,538	96,277	79,561	82,804	1,248,552
1983	77,620	85,791	114,358	104,416	120,345	140,722	133,062	137,470	119,175	95,272	84,907	79,601	1,292,739
						ICE CREAM							
1981	51,757	58,817	70,814	69,868	70,266	85,176	89,249	81.342	74,431	64,750	56,936	59,044	832,450
1982 2/	50,820	58,882	75,093	72,466	75,771	87,884	89,210	82,446	74,305	67,855	57,059	60,281	852,072
1983	54,924	60,451	79,748	69,874	78,616	91,351	85,780	91,090	81,289	66,227	61,287	58,149	878,786
						ICE MILK 3/							
1981	16,492	18,382	23,917	26,430	28,315	33,082	33,638	30,223	24,986	21,182	17,756	16,589	290,992
1982 2/	14,686	17,288	23,696	25,143	27,868	31,335	32,383	29,482	24,467	21,120	16,795	16,296	280,559
1983	16,519	18,347	24,771	24,328	29,221	33,190	32,882	32,784	27,342	21,544	17,962	16,207	295,097
						SHERBET							
1981	2,651	2,866	3,584	4,036	4,366	5,351	5,631	4,805	3,836	3,050	2,543	3,013	45,732
1982 2/	2,607	2,681	3,828	4,017	4,475	5,366	5,406	4,750	3,742	3,113	2,529	3,061	45,575
1983	2,804	2,864	3,970	3,894	4,642	5,465	5,596	5,432	4,253	3,035	2,873	2,801	47,629
						WATER ICES							
1981	1,644	2,156	3,104	3,582	3,965	5,047	5,377	3,893	2,281	1,325	973	997	34,344
1982 2/	1,485	1,970	2,923	3,565	4,232	5,256	5,410	4,169	2,414	1,618	1,049	1,067	35,158
1983	1,675	2,057	3,105	3,489	4,892	6,752	5,370	4,740	3,012	1,871	1,277	1,198	39,438
						MELLORINE TYPE PRODUCTS							
1981	745	789	963	1,115	1,071	1,285	1,210	1,034	940	856	628	555	11,191
1982 2/	579	666	896	949	979	1,121	1,087	955	868	879	580	571	10,130
1983	619	725	838	863	968	1,261	1,097	1,048	1,135	819	427	394	10,194

1/ Includes small amounts of other frozen products in addition to those shown separately.
2/ April through December 1982 prorated by IAICM based on U.S.D.A. quarterly data.
3/ Includes freezer-made milkshake.

Prepared by the International Association of Ice Cream Manufacturers from data published by U. S. Department of Agriculture.

PRODUCTION OF ICE CREAM AND RELATED PRODUCTS (HARD AND SOFT)
BY REGIONS - 1983

REGION	ICE CREAM	ICE 1/ MILK	SHERBET	WATER ICES	MELLORINE TYPE PRODUCTS	OTHER FROZEN DAIRY PRODUCTS	TOTAL FROZEN PRODUCTS
			(Thousand Gallons)				
New England	72,135	12,794	3,938	1,840		871	91,578
Mid Atlantic	151,374	27,665	6,191	4,427	509	8,750	198,916
E. N. Central	164,257	64,380	9,466	8,559	689	3,034	250,385
W. N. Central	91,595	33,692	5,367	5,606	1,051	1,313	138,624
South Atlantic	112,224	51,678	6,439	6,425	159	1,811	178,736
South Central	121,992	43,448	7,148	5,551	6,228	2,122	186,489
Mountain	36,952	18,405	2,069	2,395	334	88	60,243
Pacific	126,127	41,111	6,769	4,525	1,017	3,606	183,155
UNITED STATES 2/	878,786	295,097	47,629	39,438	10,194	21,595	1,292,739

1/ Includes freezer-made milkshake.
2/ Includes Alaska and Hawaii.

Prepared by International Association of Ice Cream Manufacturers from data released by U. S. Department of Agriculture.

PER CAPITA PRODUCTION (HARD AND SOFT)
ICE CREAM AND RELATED PRODUCTS
BY REGIONS, 1960-1983

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Quarts)					
ICE CREAM									
1960	18.44	19.71	17.94	17.11	13.23	9.52	13.21	14.25	15.55
1965	20.06	18.74	18.19	18.00	13.40	9.57	12.88	14.89	15.65
1970	20.82	17.96	16.86	17.94	11.36	10.18	11.90	14.62	14.96
1975	24.72	16.27	17.40	19.23	12.33	11.71	10.96	15.77	15.53
1980	21.83	16.19	16.10	19.15	11.48	10.78	11.93	15.18	14.61
1981	21.09	16.35	15.08	19.64	11.38	11.20	11.96	15.40	14.52
1982	21.82	16.82	15.40	20.39	11.01	11.62	11.87	15.18	14.70
1983	23.10	16.35	15.82	21.03	11.57	11.98	11.99	15.70	15.02
ICE MILK									
1960	1.50	0.86	2.61	5.42	3.97	3.61	4.92	5.48	3.23
1965	2.10	2.01	4.50	6.59	6.52	5.54	5.47	6.21	4.77
1970	3.65	3.32	5.89	8.24	6.66	5.50	6.56	6.55	5.63
1975	5.34	3.40	6.49	7.70	5.86	5.14	5.18	5.95	5.55
1980	4.72	3.11	6.14	7.34	5.49	4.39	6.23	5.48	5.17
1981	5.10	2.89	6.15	7.24	5.30	4.36	5.81	5.37	5.08
1982	3.81	2.90	6.08	7.60	4.61	4.26	5.51	5.14	4.84
1983	4.10	2.99	6.20	7.73	5.33	4.27	5.97	5.12	5.05
TOTAL FROZEN PRODUCTS 1/									
1960	21.76	22.34	22.91	24.98	18.97	18.19	20.01	23.96	21.54
1965	24.38	22.64	24.81	27.11	21.78	20.66	20.56	26.08	23.36
1970	26.55	23.06	25.06	28.46	19.48	20.48	20.06	25.64	23.43
1975	31.59	21.19	25.92	28.38	19.95	20.35	17.26	24.56	23.45
1980	28.41	20.83	24.13	29.24	18.53	17.38	19.29	22.44	21.58
1981	27.92	20.91	23.90	29.65	18.18	17.62	19.01	22.84	21.61
1982	27.41	21.38	24.28	30.99	17.17	17.74	18.59	22.29	21.54
1983	29.33	21.49	24.11	31.82	18.42	18.32	19.54	22.80	22.10

1/ Includes ice cream, ice milk, sherbet, mellorine type products, water ices and other frozen dairy products.

Prepared by the International Association of Ice Cream Manufacturers from production data released by the U. S. Department of Agriculture and population estimates from Bureau of the Census, U. S. Department of Commerce.

NUMBER OF PLANTS PRODUCING ICE CREAM AND RELATED PRODUCTS
1960-1983

Year	Including Counter Freezers	Excluding Counter Freezers	Ice Milk	Sherbet	Water Ices	Mellorine Type Products
1960	16,591	-	23,843	5,067	2,376	1,242
1961	15,87.	-	27,607	4,636	2,398	1,221
1962	14,541	-	30,919	3,764	2,353	1,364
1963	13,915	2,476	33,229	3,625	2,650	1,253
1964	13,106	-	34,485	3,395	2,691	1,313
1965	12,584	-	35,181	3,452	2,852	1,280
1966	12,063	-	36,158	3,580	2,682	1,308
1967	11,452	-	37,312	3,191	2,773	1,363
1968	11,228	1,873	39,474	3,108	2,854	1,792
1969	1/	1,739	1,160 2/	1,176 2/	1/	199 2/
1970		1,628	1,088	1,122 2/	377	203
1971		1,520	1,008	1,065	335	177
1972		1,451	984	1,022	363	180
1973		1,330	902	976	321	154
1974		1,239	824	904	299	146
1975		1,167	746	850	281	124
1976		1,124	718	812	281	119
1977		1,095	702	782	273	110
1978		1,062	670	744	263	101
1979		990	604	690	234	89
1980		949	576	654	220	76
1981		895	548	614	212	74
1982		884	524	608	212	67
1983		862	495	594	201	73

1/ Not available.
2/ After 1968, number of plants producing hard product. Number of counter freezers not available.

Prepared by the International Association of Ice Cream Manufacturers from data published by the U. S. Department of Agriculture.

HARD FROZEN PRODUCTION - TOTAL AND PER CAPITA
ICE CREAM AND RELATED PRODUCTS
1955-1983 1/

YEAR	TOTAL FOUR PRODUCTS 2/		ICE CREAM		ICE MILK		SHERBET		MELLORINE TYPE PRODUCTS	
	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts
1955	729,578	17.75	612,812	14.92	52,217	1.27	34,675	0.84	29,874	0.72
1960	838,990	18.65	678,383	15.08	80,073	1.78	37,931	0.84	42,603	0.95
1965	962,267	19.89	741,024	15.32	126,146	2.60	44,954	0.93	50,143	1.04
1970	959,399	18.85	736,741	14.47	134,240	2.64	47,643	0.94	40,775	0.80
1975	989,823	18.38	803,494	14.92	116,609	2.17	45,996	0.85	23,724	0.44
1980	939,132	16.53	801,876	14.12	83,584	1.47	43,745	0.77	9,927	0.17
1981	932,929	16.27	804,747	14.04	75,055	1.31	44,284	0.77	8,843	0.15
1982	946,984	16.34	823,580	14.21	71,299	1.23	44,160	0.76	7,945	0.14
1983	963,275	16.47	846,350	14.47	63,560	1.09	45,147	0.77	8,218	0.14

1/ Breakdown between hard frozen and soft serve production not available prior to 1955.
2/ Includes ice cream, ice milk, sherbet and mellorine type products.

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

POTPOURRI

- Eighty-eight percent of all U. S. households purchase ice cream.
- Males consume more ice cream than females, except in the over 75-year age bracket.
- The largest consumer of ice cream is a male between the ages of 15 to 18 who eats ice cream at least once over a 3-day period, with an average serving of 9.6 fluid ounces.
- More than half of U. S. households eat ice cream away from the home.
- In 80% of the away from home eating occasions, the outlet chosen is selected by the adult.
- Fifty-six percent of hard ice cream and 64% of soft ice cream consumed away from home is eaten in a cone, while 15% of both hard and soft ice cream is served as a sundae.
- Sales at ice cream and frozen custard stands totaled $1.5 billion.
- Adults consume nearly half of all novelties purchased.
- Per capita novelty consumption is highest in the South.
- Ice pops is the most frequently purchased novelty item.
- In 1983, it took an average worker 14.7 minutes of labor to earn a half gallon of ice cream - up 11% over a ten year period. Wages increased 116% during this time.
- *For your information ... a half a cup of ...*

  vanilla ice cream (10% fat) contains only 130 calories

  vanilla ice cream (16% fat) 150 calories

  vanilla ice milk (4% fat) only 90 calories

  orange sherbet, 90 calories

- The month of July was designated as National Ice Cream Month and July 15 as National Ice Cream Day by the United States Congress. The proclamation issed by President Reagan on July 9, 1984, called upon the people "...to observe these events with appropriate ceremonies and activities..." Many ice cream festivals were held throughout the country.

PERFORMANCE OF SELECTED PRODUCTS IN THE SUPERMARKET - SALES, GROSS PROFITS, MARGINS AND ASSORTMENT OF ITEMS/BRANDS/SIZES AT WAREHOUSE
1983

Products	Sales Volume ($ Mil.)	Gross Profit ($ Mil.)	% Margin Average Retail Gross Profits	Assortment Items/Brands/ Sizes at Warehouse
Ice Cream	$1,872.78	$ 473.81	25.3%	105
Fluid Milk Products	5,561.60	1,234.68	22.2	14
Yogurt	737.76	174.11	23.6	72
Cottage Cheese	472.93	130.06	27.5	20
Cheese	3,297.23	989.17	30.0	169
Butter	1,229.61	195.51	15.9	10
Margarine	1,123.67	306.76	27.3	41
Eggs	1,986.28	317.81	16.0	NA
Frozen Juice & Drinks	1,626.86	466.55	28.7	39
Refrig. Juice & Drinks	1,030.98	294.86	28.6	28
Carbonated Soft Drinks	6,166.94	1,139.02	18.5	90
Bakery Foods	6,583.12	1,342.96	20.4	NA
Cookies & Crackers	3,783,40	911.61	24.1	74
Desserts & Toppings	499.44	119.54	23.9	117
Canned Fruit	1,076.38	249.10	23.1	132
Candy & Gum	2,226.53	720.90	32.4	625
Snacks	2,572.71	751.88	29.2	45

Source: Progressive Grocer, Supermarket Sales Manual-1984

FOODSERVICE

In 1982, foodservice sales totaled $137.0 billion, up 6.5% over 1981. Consumers allocated 37.9% of their food dollars for meals prepared outside the home. Menu prices increased 5.3%. Sales in eating establishments account for 62.5% of total sales and amounted to $86.2 billion. Ice cream and frozen custard stands had total sales of $1.5 billion, up 7.4%. The number of units rose 3.3%.

Eating Places	No. of Units	1981 ($ Mil.)	1982 ($ Mil.)	% Change
Restaurants, Lunchrooms	122,773	$43,300,552	$46,288,290	+ 6.9%
Limited Menu (Fast Food) Restaurants	108,601	32,122,358	35,141,860	+ 9.4
Commercial Cafeterias	6,787	2,315,442	2,412,690	+ 4.2
Social Caterers	3,320	806,206	814,268	+ 1.0
Ice Cream, Frozen Custard Stands	9,268	1,419,716	1,524,775	+ 7.4
TOTAL EATING PLACES	250,749	$79,964,274	$86,181,883	+ 7.8%

Source: National Restaurant Association.

HARD FROZEN PRODUCTION OF ICE CREAM AND RELATED PRODUCTS
BY REGIONS - 1983

REGION	ICE CREAM	ICE MILK	SHERBET	MELLORINE TYPE PRODUCTS	TOTAL FOUR PRODUCTS 1/
			(Thousand Gallons)		
New England	69,755	4,174	3,906		77,835
Mid Atlantic	131,897	6,098	5,808	509	144,312
E. N. Central	161,717	9,675	8,871	67	180,330
W. N. Central	91,004	9,035	5,022	893	105,954
South Atlantic	108,595	12,623	6,402		127,620
South Central	118,989	9,656	6,390	5,330	140,365
Mountain	36,558	2,436	1,876	225	41,095
Pacific	125,706	9,738	6,630	987	143,061
UNITED STATES 2/	846,350	63,560	45,147	8,218	963,275

1/ Includes ice cream, ice milk, sherbet and mellorine type products.
2/ Includes Alaska and Hawaii.

Prepared by the International Association of Ice Cream Manufacturers from data released by U. S. Department of Agriculture.

PER CAPITA PRODUCTION OF HARD FROZEN PRODUCTS
ICE CREAM AND RELATED PRODUCTS
BY REGIONS - 1960-1983

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Quarts)					
ICE CREAM									
1960	18.04	17.97	17.65	17.08	12.94	9.47	13.16	14.22	15.08
1965	19.95	17.45	17.97	17.96	13.27	9.50	12.83	14.87	15.32
1970	19.81	16.43	16.63	17.82	11.17	9.96	11.81	14.41	14.47
1975	24.45	14.52	16.86	17.94	12.08	11.48	10.92	15.69	14.92
1980	21.03	14.42	15.77	19.04	11.20	10.57	11.82	15.14	14.12
1981	20.32	14.52	14.91	19.48	11.06	11.00	11.89	15.30	14.04
1982	21.10	14.75	15.11	20.29	10.78	11.55	11.83	15.16	14.21
1983	22.34	14.25	15.58	20.89	11.19	11.68	11.86	15.65	14.47
ICE MILK									
1960	0.50	0.33	0.97	2.72	2.81	2.25	2.15	3.50	1.78
1965	0.66	0.96	1.88	3.26	4.73	3.75	2.20	2.89	2.60
1970	0.99	1.51	2.24	3.95	4.16	3.35	1.96	2.39	2.64
1975	2.34	1.46	1.89	3.13	2.58	2.59	1.74	1.91	2.17
1980	1.33	0.94	1.15	2.29	1.82	1.38	1.56	1.85	1.47
1981	1.21	0.79	1.04	2.36	1.52	1.16	1.43	1.66	1.31
1982	1.20	0.74	1.00	2.17	1.37	1.08	1.29	1.63	1.23
1983	1.34	0.66	0.93	2.07	1.30	0.95	0.79	1.21	1.09
SHERBET									
1960	0.95	0.58	0.97	0.79	0.79	0.76	0.90	1.21	0.84
1965	1.20	0.72	1.02	0.83	0.88	0.89	0.89	1.18	0.93
1970	1.22	0.69	1.07	0.90	0.65	0.87	0.89	1.17	0.94
1975	1.04	0.61	0.97	0.99	0.79	0.79	0.70	1.05	0.85
1980	1.01	0.65	0.80	1.09	0.68	0.68	0.70	0.85	0.77
1981	0.98	0.70	0.80	1.14	0.67	0.66	0.66	0.84	0.77
1982	1.00	0.70	0.80	1.10	0.65	0.64	0.66	0.82	0.76
1983	1.25	0.63	0.85	1.15	0.66	0.63	0.61	0.82	0.77
MELLORINE									
1960	-	-	0.31	1.01	0.03	3.24	0.36	2.25	0.95
1965	-	-	0.20	0.78	0.02	3.49	0.74	2.85	1.04
1970	-	-	0.16	0.41	-	2.51	0.43	2.22	0.80
1975	-	-	0.05	0.15	-	1.47	0.22	1.06	0.44
1980	-	-	0.01	0.29	-	0.58	0.10	0.32	0.17
1981	-	-	0.01	0.22	-	0.55	0.08	0.25	0.15
1982	-	-	0.01	0.19	-	0.52	0.07	0.17	0.14
1983	-	0.06	0.01	0.21	-	0.52	0.07	0.13	0.14

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture and population estimates from Bureau of the Census, U. S. Department of Commerce.

PERCENTAGE OF HARD FROZEN PRODUCTION SOLD AS
ICE CREAM, ICE MILK, SHERBET AND MELLORINE
BY REGIONS - 1960-1983

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Percent)					
ICE CREAM									
1960	93	95	89	79	78	60	79	67	81
1965	92	91	85	79	70	54	77	68	77
1970	90	88	83	77	70	60	78	71	77
1975	88	87	85	81	78	70	80	80	81
1980	90	90	89	84	82	80	83	83	85
1981	90	91	89	84	84	82	84	85	86
1982	91	91	89	85	84	83	85	85	87
1983	90	91	90	86	85	85	89	88	88
ICE MILK									
1960	2	2	5	12	17	14	13	16	10
1965	3	5	9	14	25	21	13	13	13
1970	4	8	11	17	26	20	13	12	14
1975	8	9	10	14	17	16	13	10	12
1980	6	6	6	10	13	10	11	10	9
1981	6	5	6	10	11	9	10	9	8
1982	5	5	6	9	11	8	9	9	7
1983	5	5	5	8	10	7	6	7	6
SHERBET									
1960	5	3	5	4	5	5	6	6	4
1965	5	4	5	4	5	5	5	6	5
1970	6	4	5	4	4	5	6	6	5
1975	4	4	5	4	5	5	5	5	5
1980	4	4	5	5	5	5	5	5	5
1981	4	4	5	5	5	5	5	5	5
1982	4	4	5	5	5	5	5	5	5
1983	5	4	5	5	5	4	4	5	5
MELLORINE									
1960	-	-	1	5	-	21	2	11	5
1965	-	-	1	3	-	20	5	13	5
1970	-	-	1	2	-	15	3	11	4
1975	-	-	-	1	-	9	2	5	2
1980	-	-	-	1	-	5	1	2	1
1981	-	-	-	1	-	4	1	1	1
1982	-	-	-	1	-	4	1	1	1
1983	-	-	-	1	-	4	1	-	1

Prepared by International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

SOFT SERVE PRODUCTION - TOTAL AND PER CAPITA
ICE CREAM AND RELATED PRODUCTS
1955-1983 1/

YEAR	TOTAL FOUR PRODUCTS 2/		ICE CREAM		ICE MILK		SHERBET		MELLORINE TYPE PRODUCTS	
	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts	Total 1,000 Gallons	Per Capita Quarts
1955	58,758	1.44	15,713	0.38	37,968	0.93	2,690	0.07	2,387	0.06
1960	91,740	2.04	21,222	0.47	65,104	1.45	2,803	0.06	2,611	0.06
1965	124,343	2.57	15,976	0.33	104,846	2.17	495	0.01	3,026	0.06
1970	189,761	3.72	24,991	0.49	152,423	2.99	1,244	0.02	11,103	0.22
1975	224,098	4.16	33,058	0.61	182,180	3.38	2,546	0.05	6,314	0.12
1980	242,427	4.28	27,922	0.49	209,800	3.70	1,442	0.03	3,263	0.06
1981	247,436	4.32	27,703	0.48	215,937	3.77	1,448	0.03	2,348	0.04
1982	241,233	4.16	28,492	0.49	209,218	3.61	1,415	0.03	2,108	0.03
1983	268,431	4.59	32,436	0.55	231,537	3.96	2,482	0.04	1,976	0.03

1/ Breakdown between hard frozen and soft serve production not available prior to 1955.
2/ Includes ice cream, ice milk, sherbet and mellorine type products.

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

SOFT SERVE PRODUCTION OF ICE CREAM AND RELATED PRODUCTS
BY REGIONS - 1983

REGION	ICE CREAM	ICE MILK	SHERBET	MELLORINE TYPE PRODUCTS	TOTAL FOUR PRODUCTS 1/
			(Thousand Gallons)		
New England	2,380	8,620	32		11,032
Mid Atlantic	19,477	21,567	383		41,427
E. N. Central	2,540	54,705	595	622	58,462
W. N. Central	591	24,657	345	158	25,751
South Atlantic	3,629	39,055	37	159	42,880
South Central	3,003	33,792	758	898	38,451
Mountain	394	15,969	193	109	16,665
Pacific	421	31,373	139	30	31,963
UNITED STATES 2/	32,436	231,537	2,482	1,976	268,431

1/ Includes ice cream, ice milk, sherbet and mellorine type products.
2/ Includes Alaska and Hawaii.

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

PER CAPITA AND PERCENT OF PRODUCTION OF SOFT SERVE PRODUCTS
ICE CREAM AND ICE MILK
BY REGIONS - 1960-1983

Product & Year	New England	Mid Atlantic	E. N. Central	W. N. Central	South Atlantic	South Central	Mountain	Pacific	United States
				(Quarts per Capita)					
ICE CREAM									
1960	0.40	1.74	0.29	0.03	0.29	0.05	0.05	0.03	0.47
1965	0.11	1.29	0.22	0.04	0.13	0.07	0.05	0.02	0.33
1970	1.01	1.53	0.23	0.12	0.19	0.22	0.09	0.21	0.49
1975	0.27	1.75	0.54	1.29	0.25	0.23	0.04	0.08	0.61
1980	0.80	1.77	0.33	0.11	0.28	0.21	0.11	0.04	0.49
1981	0.77	1.83	0.17	0.16	0.32	0.20	0.07	0.10	0.48
1982	0.72	2.11	0.29	0.10	0.23	0.07	0.04	0.02	0.49
1983	0.76	2.10	0.24	0.14	0.37	0.30	0.13	0.05	0.55
ICE MILK									
1960	1.00	0.53	1.64	2.70	1.16	1.36	2.77	1.98	1.45
1965	1.44	1.05	2.62	3.33	1.79	1.79	3.27	3.32	2.17
1970	2.66	1.81	3.65	4.29	2.50	2.15	4.60	4.16	2.99
1975	3.00	1.94	4.60	4.57	3.28	2.55	3.44	4.04	3.38
1980	3.39	2.17	4.99	5.05	3.67	3.01	4.67	3.63	3.70
1981	3.89	2.10	5.11	4.88	3.78	3.20	4.38	3.71	3.77
1982	2.60	2.16	5.08	5.43	3.24	3.18	4.22	3.51	3.61
1983	2.76	2.33	5.27	5.66	4.03	3.32	5.18	3.91	3.96
				(Percent)					
ICE CREAM									
1960	29	76	13	1	20	3	2	2	23
1965	7	55	8	1	7	3	2	1	13
1970	27	46	6	3	7	7	2	5	13
1975	8	47	10	21	7	7	1	2	15
1980	19	45	6	2	7	6	2	1	11
1981	16	46	3	3	8	6	2	3	11
1982	21	49	5	2	7	2	1	1	12
1983	22	47	4	2	8	8	2	1	12
ICE MILK									
1960	71	23	75	99	80	77	98	98	71
1965	93	44	92	99	93	79	98	99	84
1970	72	54	86	92	93	67	98	94	80
1975	92	52	87	76	91	76	99	96	81
1980	81	55	91	94	91	90	97	99	87
1981	83	53	94	94	92	91	98	97	87
1982	77	50	92	94	93	96	98	99	87
1983	78	52	94	96	91	88	96	98	86

Prepared by the International Association of Ice Cream Manufacturers from data released by the U. S. Department of Agriculture.

ICE CREAM CONSUMED IN A THREE-DAY PERIOD
BY AGE GROUPS AND SEX - 1977-78 1/

Age & Sex	Consumed Product at Least Once in 3-Day Period (Percent)	Average Number of Occasions Product Consumed in 3-Day Period	Average Quantity Consumed per Eating Occasion (Fluid Ounces)	Average Quantity Consumed by User per Day (Fluid Ounces)
Ages 1-2 Male & Female	24.0	1.4	4.15	1.92
Ages 3-5 Male & Female	29.8	1.5	5.17	2.59
Ages 6-8 Male & Female	30.9	1.5	6.07	3.01
Ages 9-14				
Male	31.5	1.6	7.82	4.09
Female	30.1	1.5	6.98	3.49
Ages 15-18				
Male	27.1	1.5	9.56	4.93
Female	23.6	1.4	7.40	3.43
Ages 19-34				
Male	19.9	1.4	8.54	4.03
Female	18.8	1.4	6.62	3.01
Ages 35-64				
Male	26.4	1.5	7.88	4.03
Female	19.4	1.4	6.25	2.95
Ages 65-75				
Male	27.6	1.7	6.91	3.85
Female	21.9	1.5	6.01	3.13
Over 75				
Male	21.3	1.9	6.19	3.97
Female	27.7	1.7	5.53	3.19
AVERAGE	23.6	1.5	6.98	3.43

1/ Includes small amounts of ice milk.

Source: U.S.D.A. Nationwide Food Consumption Survey, 1977-78.

ESTIMATED WHOLESALE VALUE OF ICE CREAM PRODUCTS
1981-1983 1/

Product	1981	1982	1983
Ice Cream	$2,575,000,000	$2,671,000,000	$2,796,000,000
Ice Milk	714,000,000	697,000,000	745,000,000
Sherbet	123,000,000	125,000,000	132,000,000
Water Ices	33,000,000	34,000,000	39,000,000

1/ Estimated by the International Association of Ice Cream Manufacturers.

FLAVORS 1/

ICE CREAM - 10 TOP FLAVORS
(Hard Frozen)

1.	Vanilla	35.1%
2.	Chocolate	12.4
3.	Neapolitan	7.4
4.	Chocolate Chip	5.9
5.	Strawberry	5.6
6.	Vanilla Fudge	4.2
7.	Butter Pecan	2.7
8.	Cherry	2.5
9.	Butter Almond	1.6
10.	French Vanilla	1.4
	Others	21.2
		100.0%

ICE MILK - 5 TOP FLAVORS
(Hard Frozen)

1.	Vanilla	49.2%
2.	Chocolate	11.0
3.	Vanilla Fudge	7.2
4.	Neapolitan	6.1
5.	Strawberry	4.0
	Others	22.5
		100.0%

SHERBET - 5 TOP FLAVORS
(Hard Frozen)

1.	Orange	32.6%
2.	Rainbow	22.0
3.	Lime	13.4
4.	Raspberry	11.5
5.	Pineapple	10.7
	Others	9.8
		100.0%

1/ Additional information available in "Frozen Dessert Facts" published by International Association of Ice Cream Manufacturers, based on 1978 production.

HIGHLIGHTS—CANADA

PRELIMINARY PRODUCTION - 1984

Month	Total Ice Cream	Freezer Made Milkshake	Ice Milk 1/	Water Ices 1/	Sherbet 1/
			(Liters)		
January	16,123,000	1,455,000	792,000	473,000	150,000
February	18,238,000	1,669,000	840,000	972,000	327,000
March	23,488,000	2,052,000	1,474,000	1,801,000	490,000
April	26,637,000	2,254,000	1,451,000	2,141,000	694,000
May	30,318,000	2,359,000	1,913,000	2,745,000	644,000
5-Month Total	114,804,000	9,789,000	6,470,000	8,132,000	2,305,000
% Change 5-Mo. 1983	- 0.6%	- 0.89%	+40.9%	+24.2%	+78.7%

1/—Increase in production may be due to improved reporting methods.

PRODUCTION - 1983

All products experienced an increase in production in 1983. Ice cream, after a decline of 3% in 1982, rebounded back with an increase of 2.5% for the year. Freezer-made milkshake rose 3.1%, ice milk 0.1%, and water ices and sherbet showed substantial increases of 14.1% and 12.9% respectively. Total production amounted to 372 million liters, up 3%.

Total volume of ice cream produced was 311 million liters, with Ontario accounting for 26% of the nation's output. Alberta experienced the greatest increase, reporting a gain of 10%. Manitoba continues as the largest consumer of ice cream with a per capita of 19.43 liters.

Ice cream represents 84% of the total production, followed by freezer-made milkshake 7.6%, water ices 4.4%, ice milk 3.6%, and sherbet 0.9%.

June continued as the largest producing month for ice cream, accounting for 12% of the total production, while January ranked the lowest with 5.5%.

	Production 1983 1/ (Liters) 2/	% Change from 1982 %	Per Capita 1983 (Liters)	% Change from 1982 %
Ice Cream - Hard	293,140,000	+ 2.89	12.11	+ 1.85
Ice Cream - Soft	17,872,000	- 3.61	0.74	- 3.82
Total Ice Cream	311,012,000	+ 2.50	12.85	+ 1.46
Freezer-made Milkshake 3/	28,239,000	+ 3.10	1.17	+ 2.63
Ice Milk	13,443,000	+ 0.07	0.56	0.0
Water Ices	16,266,000	+14.14	0.67	+13.56
Sherbet	3,205,000	+12.89	0.13	+12.76
TOTAL - ALL PRODUCTS	372,165,000	+ 3.12	15.38	+ 2.12

1/ Includes production in Newfoundland and Prince Edward Island.
2/ One U. S. quart equivalent to .946 liter.
3/ Freezer-made milkshake derived by applying 40% overrun to milkshake mix

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

HARD AND SOFT PRODUCTION OF ICE CREAM - CANADA
BY PROVINCES - 1981-1982-1983

Province	Year	Production			Percent	
		Hard	Soft	Total	Hard	Soft
		(Thousand Liters) 1/			%	
Alberta	1981	29,610	2,779	32,389	91	9
	1982	28,676	2,679	31,355	91	9
	1983	31,520	2,958	34,478	91	9
British Columbia	1981	34,197	4,792	38,989	88	12
	1982	30,941	4,193	35,134	88	12
	1983	31,040	4,141	35,181	88	12
Manitoba	1981	19,729	1,864	21,593	91	9
	1982	18,558	2,102	20,660	90	10
	1983	18,292	2,046	20,338	90	10
New Brunswick	1981	6,588	314	6,902	95	5
	1982	7,938	373	8,311	96	4
	1983	8,356	426	8,782	95	5
Nova Scotia	1981	9,651	809	10,460	92	8
	1982	9,890	912	10,802	92	8
	1983	10,590	992	11,582	91	9
Ontario	1981	115,480	2,049	117,529	98	2
	1982	113,709	2,050	115,759	98	2
	1983	117,464	2,169	119,633	98	2
Quebec	1981	68,649	5,617	74,266	92	8
	1982	66,319	4,791	71,110	93	7
	1983	66,559	3,578	70,137	95	5
Saskatchewan	1981	8,517	1,325	9,842	87	13
	1982	8,403	1,431	9,834	85	15
	1983	9,319	1,562	10,881	86	14
CANADA	1981	292,421	19,549	311,970	94	6
	1982	284,434	18,531	302,965	94	6
	1983	293,140	17,872	311,012	94	6

1/ One U. S. quart equivalent to .946 liter.
2/ Excludes production in Newfoundland and Prince Edward Island.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

International Statistics

This section includes data for 55 countries, including United States and Canada. In some countries production is reported only by the larger manufacturers and no estimates are available for the output by small establishments. In such instances, the computed production and per capita are incomplete, but the reported figures indicate trends.

Country and Product	Annual Production		Per Capita Production	
	In Reported Units	Converted to U.S. Gallons	In Reported Units	Converted to U. S. Pints
UNITED STATES - 1982				
Ice Cream		878,786,000		30.05
Ice Milk		295,097,000		10.09
Sherbet		47,629,000		1.63
Water Ices		39,438,000		1.35
Mellorine		10,194,000		0.35
Other Frozen Dairy Products		21,595,000		0.74
Total		1,292,739,000		44.21
ARGENTINA - 1980	(Liters)		(Liters)	
Ice Cream	27,000,000	7,133,000	0.96	2.03
Ice Milk	4,500,000	1,189,000	0.16	0.34
Sherbet & Water Ices	4,500,000	1,189,000	0.16	0.34
Other (Napolitan)	9,000,000	2,378,000	0.32	0.68
Total	45,000,000	11,889,000	1.60	3.39
AUSTRALIA - 1983	(Liters)		(Liters)	
Ice Cream	204,679,000	54,076,000	13.25	27.97
Milk Ices 1/	42,453,000	11,216,000	2.75	5.80
Water Ices	12,864,000	3,399,000	0.83	1.76
Other Frozen Products	7,718,000	2,039,000	0.50	1.05
Total	267,714,000	70,730,000	17.33	36.58
AUSTRIA - 1981	(Liters)		(Liters)	
Ice Cream	35,000,000	9,247,000	4.66	9.84
Sherbet & Water Ices	11,000,000	2,906,000	1.46	3.08
Total	46,000,000	12,153,000	6.12	12.92
BANGLADESH - 1983	(Metric Tons)		(Pounds)	
Ice Cream	550	269,500	0.01	0.02
Sherbet & Water Ices	7,250	2,664,375	0.17	0.22
Total	7,800	2,933,875	0.18	0.24
BELGIUM - 1983	(Liters)		(Liters)	
Ice Cream & Related Prod.	58,967,000	15,217,000	5.98	12.62
BRAZIL - 1982	(Liters)		(Liters)	
Ice Cream	59,925,000	15,832,000	0.47	0.99
Ice Milk	20,571,000	5,435,000	0.16	0.34
Sherbet & Water Ices	8,940,000	2,362,000	0.07	0.15
Total	89,436,000	23,629,000	0.70	1.48
CANADA - 1983	(Liters)		(Liters)	
Ice Cream	311,012,000	82,169,000	12.85	27.16
Freezer-made Milkshake 2/	28,239,000	7,461,000	1.17	2.47
Ice Milk	13,443,000	3,552,000	0.56	1.17
Water Ices	16,266,000	4,297,000	0.67	1.42
Sherbet	3,205,000	847,000	0.13	0.28
Total	372,165,000	98,326,000	15.38	32.50
CHILE - 1983	(Liters)		(Liters)	
Ice Cream	22,000,000	5,812,400	1.87	3.95

Country and Product	ANNUAL PRODUCTION In Reported Units	ANNUAL PRODUCTION Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	PER CAPITA PRODUCTION Converted to U. S. Pints
COLOMBIA - 1983	(Metric Tons)		(Kilograms)	
Ice Cream	11,950,000	5,855,500	0.43	1.70
Sherbet	1,000,000	367,500	0.04	0.11
Water Ices	800,000	294,000	0.03	0.09
Total	13,750,000	6,517,000	0.50	1.90
COSTA RICA - 1981	(Liters)		(Liters)	
Ice Cream	8,072,000	2,132,600	3.53	7.46
Ice Milk	1,347,000	355,800	0.59	1.25
Sherbet & Water Ices	394,000	104,100	0.17	0.36
Total	9,813,000	2,592,500	4.29	9.07
DENMARK - 1983	(Liters)		(Liters)	
Ice Cream	35,950,000	9,497,000	7.03	14.85
Water Ices	3,300,000	742,000	0.65	1.16
Total	39,250,000	10,239,000	7.68	16.01
DOMINICAN REPUBLIC - 1982	(Kilograms)		(Kilograms)	
Ice Cream	5,071,800	1,035,000	0.88	2.59
ECUADOR - 1977	(Kilograms)		(Kilograms)	
Ice Cream	4,500,000	2,205,000	0.63	2.47
Ice Milk	1,500,000	735,000	0.21	0.82
Sherbet & Water Ices	2,000,000	735,000	0.28	0.82
Total	8,000,000	3,675,000	1.12	4.11
EGYPT - 1983	(Metric Tons)		(Kilograms)	
Ice Cream	20,000	9,800,000	0.44	1.71
Ice Milk	3,000	1,470,000	0.07	0.26
Sherbet & Water Ices	2,000	735,000	0.04	0.13
Total	25,000	12,005,000	0.55	2.10
EL SALVADOR - 1976	(Liters)		Liters)	
Ice Cream	1,293,000	342,000	0.30	0.64
Ice Cream Sticks, etc.	6,255,000	1,653,000	1.47	3.10
Total	7,548,000	1,995,000	1.77	3.74
FRANCE - 1983	(Liters)		(Liters)	
Ice Cream - Industrial	197,401,600	52,153,000	3.62	7.64
WEST GERMANY - 1982	(Liters)		(Liters)	
Ice Cream	295,600,000	78,098,000	4.80	10.13
Sherbet & Water Ices	28,400,000	7,503,000	0.46	0.97
Total Industrial Prod.	324,000,000	85,601,000	5.26	11.10
Small Establishments	83,000,000	21,929,000	1.35	2.84
Total	407,000,000	107,530,000	6.61	13.94
GREECE - 1982	(Metric Tons)		(Kilograms)	
Ice Cream - Industrial	30,000	14,700,000	3.07	12.07
Ice Cream - Confectionary	10,000	4,900,000	1.03	4.02
Total	40,000	19,600,000	4.10	16.09
GUATEMALA - 1975				
Ice Cream		1,368,000		1.85
Novelties & Sherbet		2,191,000		2.96
Total		3,559,000		4.81

Country and Product	ANNUAL PRODUCTION In Reported Units	ANNUAL PRODUCTION Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	PER CAPITA PRODUCTION Converted to U. S. Pints
HONG KONG - 1978				
Ice Cream		4,536,000		7.72
Sherbet		73,000		0.13
Water Ices		892,500		1.52
Total		5,501,500		9.37
INDIA - 1980	(Metric Tons)		(Kilograms)	
Ice Cream	232,000	113,680,000	0.34	1.33
INDONESIA - 1982	(Liters)		(Liters)	
Ice Cream	1,640,000	433,200	0.01	0.02
IRAN - 1978	(Metric Tons)		(Kilograms)	
Ice Cream	10,615	5,201,000	0.38	1.09
IRELAND - 1983	(Liters)		(Liters)	
Ice Cream	26,000,000	6,869,000	7.36	15.59
ITALY - 1983	(Liters)		(Liters)	
Ice Cream - Industrial	225,000,000	59,445,000	3.99	8.44
Small Establishments	100,000,000	26,420,000	1.77	3.75
Total	325,000,000	85,865,000	5.76	12.19
IVORY COAST - 1983	(Metric Tons)		(Kilograms)	
Ice Cream & Related Prod.	4,700	2,303,000	0.55	1.16
JAPAN - 1982	(Liters)		(Liters)	
Ice Cream	183,400,000	48,454,000	1.54	3.25
Ice Milk, 3%	63,100,000	16,671,000	0.53	1.12
Lact Ice	285,800,000	75,508,000	2.40	5.07
Sherbet	320,700,000	84,729,000	2.69	5.68
Total	853,000,000	225,362,000	7.16	15.12
KOREA - 1982	(Metric Tons)		(Kilograms)	
Ice Cream	27,338	13,396,000	0.67	2.61
LEBANON - 1978				
Dairy Ice Cream		350,000		1.05
Other Ice Cream		10,000		0.03
Water Ices		500,000		1.50
Arabic Ice Cream		200,000		0.60
Sherbet		300,000		0.90
Total		1,360,000		4.08
LIBERIA - 1978	(Liters)		(Liters)	
Ice Cream 3/	149,448	39,484	0.09	0.18
MALAYSIA - 1978	(Liters)		(Liters)	
Ice Cream	3,774,200	997,000	0.29	0.62
Bars, Popsicles	3,212,800	849,000	0.25	0.53
Total	6,987,000	1,846,000	0.54	1.15
MEXICO - 1982	(Liters)		(Liters)	
Ice Cream	129,000,000	34,081,000	1.75	3.69
Sherbet & Water Ices	18,000,000	4,756,000	0.24	0.52
Total	147,000,000	38,837,000	1.99	4.21
MOROCCO - 1982	(Liters)		(Liters)	
Ice Cream	2,754,000	727,600	0.12	0.26
Other Related Products	2,246,000	593,400	0.10	0.21
Total	5,000,000	1,321,000	0.22	0.47

PRODUCTION OF ICE CREAM AND RELATED PRODUCTS - CANADA
1971-1983 1/

Year	Total	Ice Cream		Freezer-made Milkshake 2/	Ice Milk	Sherbet	Water Ices
		Hard	Soft	(Thousand Liters) 3/			
1971	272,439	254,591	17,848	10,826	7,901	3,519	12,847
1972	276,917	258,851	18,066	9,369	13,674	3,701	13,588
1973	275,175	256,954	18,221	10,304	13,879	3,914	15,402
1974	277,744	259,164	18,580	12,003	11,429	3,841	11,583
1975	287,232	266,515	20,717	11,820	12,675	3,337	12,602
1976	279,571	258,850	20,721	13,219	14,084	3,578	11,665
1977	291,173	269,637	21,536	15,364	15,219	3,122	11,398
1978	287,615	266,150	21,465	14,718	15,158	3,528	11,786
1979	307,669	289,748	17,921	24,112	12,130	3,664	12,744
1980	311,933	295,215	16,718	26,803	12,446	3,170	12,924
1981	311,970	292,421	19,549	28,094	13,429	2,900	13,074
1982	303,439	284,898	18,541	27,391	13,345	2,486	14,249
1983	311,012	293,140	17,872	28,239	13,443	3,205	16,266

1/ Excludes production in Newfoundland and Prince Edward Island.
2/ Freezer-made milkshake derived by applying 40% overrun in milkshake mix.
3/ One U. S. quart equivalent to .946 liter.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

MONTHLY PRODUCTION OF ICE CREAM AND RELATED PRODUCTS - CANADA

1983 1/

Month	Ice Cream			Freezer-made Milkshake 2/	Ice Milk	Sherbet	Water Ices
	Total	Hard	Soft				
				(Thousand Liters) 3/			
January	17,133	16,640	493	1,354	535	270	769
February	18,302	17,801	501	1,536	610	197	580
March	24,756	23,939	817	2,265	910	224	1,263
April	23,863	22,534	1,329	1,994	1,046	238	1,927
May	31,390	29,221	2,169	2,729	1,490	361	2,009
June	38,044	34,768	3,276	3,192	1,927	328	2,686
July	36,773	33,700	3,073	3,583	1,979	363	3,423
August	35,448	32,611	2,837	3,504	1,704	378	1,960
September	27,213	25,668	1,545	2,787	1,313	238	887
October	19,491	18,615	876	1,695	654	268	335
November	18,260	17,747	513	1,800	641	193	259
December	20,339	19,896	443	1,800	634	147	168
YEAR	311,012	293,140	17,872	28,239	13,443	3,205	16,266

1/ Excludes production in Newfoundland and Prince Edward Island

2/ Freezer-made milkshake derived by applying 40% overrun to milkshake mix.

3/ One U. S. quart equivalent to .946 liter.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

PER CAPITA PRODUCTION OF ICE CREAM - CANADA
BY PROVINCES - 1970-1983

Province	1970	1975	1980	1981	1982	1983
			(Liters) 1/			
Alberta	16.06	17.12	14.59	14.42	13.50	14.65
British Columbia	13.26	13.71	14.44	14.18	12.58	12.44
Manitoba	15.41	18.65	20.43	21.03	19.95	19.43
New Brunswick	13.54	14.01	10.83	9.90	11.87	12.40
Nova Scotia	14.97	15.60	13.96	12.35	12.66	13.63
Ontario	12.80	11.22	13.06	13.62	13.27	13.56
Quebec	12.17	12.46	12.35	11.53	10.96	10.76
Saskatchewan	12.44	12.69	11.26	10.16	10.02	10.96
CANADA 2/	13.13	13.06	13.38	13.22	12.68	12.85

1/ One U. S. quart equivalent to .946 liters.

2/ Excludes production and population for Newfoundland and Prince Edward Island.

Prepared by the International Association of Ice Cream Manufacturers from data released by Statistics Canada.

Country and Product	ANNUAL PRODUCTION In Reported Units	Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	Converted to U. S. Pints
NETHERLANDS - 1981	(Liters)		(Liters)	
Ice Cream	13,372,300	3,533,000	0.94	1.98
Water Ices	5,726,700	1,513,000	0.40	0.85
Others	19,089,000	5,043,000	1.34	2.83
Total	38,188,000	10,089,000	2.68	5.66
NEW ZEALAND - 1983	(Liters)		(Liters)	
Ice Cream	50,129,000	13,244,000	15.33	32.37
Frozen Confections	5,418,000	1,431,400	1.66	3.50
Total	55,547,000	14,675,400	16.99	35.87
NIGERIA - 1980	(Liters)		(Liters)	
Ice Cream	2,200,000	581,000	0.03	0.07
NORWAY - 1983	(Liters)		(Liters)	
Ice Cream	36,466,700	9,634,500	8.83	18.66
Soft Ice Cream	1,897,300	501,300	0.46	0.97
Sherbet	1,635,700	432,200	0.40	0.84
Total	39,999,700	10,568,000	9.69	20.47
PAKISTAN - 1983	(Metric Tons)		(Kilograms)	
Ice Cream	23,100	11,319	0.26	1.02
Ice Milk	8,400	4,116	0.09	0.37
Sherbet	10,200	3,748	0.11	0.32
Total	41,700	19,183	0.46	1.71
PERU - 1980	(Metric Tons)		(Kilograms)	
Ice Cream & Sherbet	4,098	2,008,000	0.22	0.86
POLAND - 1982	(Metric Tons)		(Kilograms)	
Ice Cream	30,000	14,700,000	0.83	3.25
PORTUGAL - 1983	(Metric Tons)		(Kilograms)	
Ice Cream	7,288	3,571,000	0.73	2.86
SINGAPORE - 1982	(Liters)		(Liters)	
Ice Cream	8,000,000	2,113,600	3.24	6.84
SOUTH AFRICA - 1980	(Liters)		(Liters)	
Ice Cream	16,500,000	4,359,000	0.57	1.20
Ice Milk	2,200,000	581,000	0.08	0.16
Sherbet	35,400,000	9,353,000	1.22	2.59
Others	10,100,000	2,668,000	0.35	0.74
Total	64,200,000	16,961,000	2.22	4.69
SPAIN - 1983	(Metric Tons)		(Kilograms)	
Ice Cream	58,975,000	28,898,000	1.54	6.05
SWEDEN - 1982	(Liters)		(Liters)	
Ice Cream	99,190,000	26,206,000	11.91	25.17
Water Ices	5,170,000	1,366,000	0.62	1.31
Soft Ice Cream	7,000,000	1,849,000	0.84	1.78
Total	111,360,000	29,421,000	13.37	28.26
SWITZERLAND - 1982	(Liters)		(Liters)	
Ice Cream & Related Prod.	52,523,000	13,876,600	8.17	17.26
TAIWAN - 1982				
Ice Cream		6,644,579		2.88
Ice Cream Stick & Novelties		2,939,353		1.27
Total		9,584,432		4.15

Country and Product	ANNUAL PRODUCTION In Reported Units	ANNUAL PRODUCTION Converted to U.S. Gallons	PER CAPITA PRODUCTION In Reported Units	PER CAPITA PRODUCTION Converted to U. S. Pints
TUNISIA - 1978	(Kilograms)		(Kilograms)	
	300,446	147,000	0.04	0.17
TURKEY - 1982	(Liters)		(Liters)	
Ice Cream & Related Prod.	41,800,000	11,044,000	0.87	1.83
UNITED KINGDOM - 1983	(Liters)		(Liters)	
Bulk	104,584,000	27,631,000	1.87	3.95
Soft Ice Cream Mix 4/	8,803,000	2,327,000	0.16	0.33
Home Packs	94,922,000	25,078,000	1.69	3.58
Water Ices	14,743,000	3,895,000	0.26	0.56
Other Stick Confections	9,573,000	2,529,000	0.17	0.36
All Other	45,434,000	12,004,000	0.81	1.71
Total	278,059,000	73,463,000	4.96	10.49
URUGUAY - 1983	(Kilograms)		(Kilograms)	
Ice Cream	2,652,000	1,299,500	0.89	3.48
USSR - 1982	(Metric Tons)		(Kilograms)	
Ice Cream	158,500	77,665,000	0.59	2.30
VENEZUELA - 1982	(Liters)		(Liters)	
Ice Cream	1,596,000	422,000	0.09	0.19
Ice Milk	30,936,000	8,173,000	1.72	3.63
Sherbet & Water Ices	7,786,000	2,057,000	0.43	0.91
Total	40,318,000	10,652,000	2.24	4.73
YUGOSLAVIA - 1983	(Metric Tons)		(Kilograms)	
Ice Cream - Industrial	19,200	94,080,000	0.84	3.30
Small Establishments	3,500	17,150,000	0.15	0.60
Total	22,700	111,230,000	0.99	3.90

1/ Includes aerated milk-based confections and milk-based mixes for soft serves and thick shakes
2/ Freezer-made milkshake derived by applying 40% overrun to milkshake base
3/ Includes imported ice cream and sherbet
4/ Converted into ready-made soft ice cream.

CONVERSION FACTORS:

1 Liter = .2642 U. S. Gallons
= 2.1114 U. S. Pints

1 U. S. Gallon of Ice Cream or Ice Milk = 4.5 Pounds
1 U. S. Gallon of Sherbet or Water Ices = 6.0 pounds

1 Kilogram = 2.205 Pounds
= .4900 U. S. Gallons of Sherbet or Water Ices
= 3.920 U. S. Pints of Ice Cream or Ice Milk
= 2.940 U. S. Pints of Sherbet or Water Ices

1 Metric Ton (1,000 Kilograms) = 2,205 Pounds
= 490.0 U. S. Gallons of Ice Cream or Ice Milk
= 367.5 U. S. Gallons of Sherbet or Water Ices

Prepared by the International Association of Ice Cream Manufacturers from data supplied by Agricultural Attaches of the U. S. Department of Agriculture, or from government or trade statistics.